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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/085,108

DATE: 03/13/2002

TIME: 10:18:02

Input Set : N:\Crf3\RULE60\10085108.raw
 Output Set: N:\CRF3\03132002\J085108.raw

SEQUENCE LISTING

1 (1) GENERAL INFORMATION:

2 (i) APPLICANT: LUCAS, Sophie; BOON-FALLEUR, Thierry

3 (ii) TITLE OF INVENTION: ISOLATED NUCLEIC ACID MOLECULES CODING
4 FOR
5 TUMOR REJECTION ANTIGEN PRECURSORS OF MEMBERS OF THE

MAGE-C AND

6 MAGE-B FAMILIES AND USES THEREOF

7 (iii) NUMBER OF SEQUENCES: 26

8 (iv) CORRESPONDENCE ADDRESS:

9 (A) ADDRESSEE: Fulbright & Jaworski L.L.P.

10 (B) STREET: 666 Fifth Avenue

11 (C) CITY: New York City

12 (D) STATE: New York

13 (E) COUNTRY: USA

14 (F) ZIP: 10103

15 (v) COMPUTER READABLE FORM:

16 (A) MEDIUM TYPE: Diskette, 3.5 inch, 360 kb storage

17 (B) COMPUTER: IBM PS/2

18 (C) OPERATING SYSTEM: PC-DOS

19 (D) SOFTWARE: Wordperfect

20 (vi) CURRENT APPLICATION DATA:

21 (A) APPLICATION NUMBER: US/10/085,108

C--> 22 (B) FILING DATE: 01-Mar-2002

C--> 23 (C) CLASSIFICATION:

24 (vii) PRIOR APPLICATION DATA:

25 (A) APPLICATION NUMBER: 09/501,104

26 (B) FILING DATE: 09-Feb-2000

27 (A) APPLICATION NUMBER: 09/468,433

28 (B) FILING DATE: December 17, 1999

29 (A) APPLICATION NUMBER: 09/066,281

30 (B) FILING DATE: April 24, 1998

31 (A) APPLICATION NUMBER: 08/845,528

32 (B) FILING DATE: April 25, 1997

33 (viii) ATTORNEY/AGENT INFORMATION:

34 (A) NAME: Mary Anne Schofield

35 (B) REGISTRATION NUMBER: 36,669

36 (C) REFERENCE/DOCKET NUMBER: LUD 5611.1 JEL/MAS

37 (ix) TELECOMMUNICATION INFORMATION:

38 (A) TELEPHONE: (212) 318-3100

39 (B) TELEFAX: (212) 318-3400

40 (2) INFORMATION FOR SEQ ID NO: 1:

41 (i) SEQUENCE CHARACTERISTICS:

42 (A) LENGTH: 4031 base pairs

ENTERED

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Input Set : N:\Crf3\RULE60\10085108.raw
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43 (B) TYPE: nucleic acid
 44 (C) STRANDEDNESS: double-stranded
 45 (D) TOPOLOGY: linear
 46 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
 47 GGATCGTCTC AGGTCA GCGG AGGGAGGAGA CTTATAGACC TATCCAGTCT TCAAGGTGCT 60
 48 CCAGAAAGCA GGAGTTGAAG ACCTGGGTGT GAGGGACACA TACATCCTAA AAGCACCACA 120
 49 GCAGAGGAGG CCCAGGCAGT GCCAGGAGTC AAGGTTCCA GAAGACAAAC CCCCTAGGAA 180
 50 GACAGGCGAC CTGTGAGGCC CTAGAGCACC ACCTTAAGAG AAGAAGAGCT GTAAGCCGGC 240
 51 CTTTGTCAGA GCCATCATGG GGGACAAGGA TATGCCTACT GCTGGGATGC CGAGTCTTCT 300
 52 CCAGAGTTCC TCTGAGAGTC CTCAGAGTTG TCCTGAGGGG GAGGACTCCC AGTCTCCTCT 360
 53 CCAGATTCCC CAGAGTTCTC CTGAGAGCGA CGACACCCCTG TATCCTCTCC AGAGTCCCTCA 420
 54 GAGTCGTTCT GAGGGGGAGG ACTCCTCGGA TCCTCTCCAG AGACCTCTG AGGGGAAGGA 480
 55 CTCCCAGTCT CCTCTCCAGA TTCCCCAGAG TTCTCCTGAG GGCAGCAGACA CCCAGTCTCC 540
 56 TCTCCAGAAC TCTCAGAGTT CTCCTGAGGG GAAGGACTCC CTGTCTCTC TAGAGATTTC 600
 57 TCAGAGCCCT CCTGAGGGGT AGGATGTCCA GTCTCCCTG CAGAATCTG CGAGTCCCTT 660
 58 CTTCTCCTCT GCTTTATTGA GTATTTCCA GAGTTCCCCT GAGAGAACTC AGAGTACTTT 720
 59 TGAGGGTTTT CCCCAGTCTC CTCTCCAGAT TCCTGAGGAG TCCTCCTCCT CCTCCACTTT 780
 60 ATTGAGTCTT TTCCAGAGTT CCCCTGAGAG AACTCAGAGT ACTTTGAGG GTTTCCCTCA 840
 61 GTCTCTTCTC CAGATTCTA TGACCTCCTC CTTCTCCTCT ACTTTATTGA GTATTTCCA 900
 62 GAGTTCTCCT GAGAGTGCTC AAAGTACTTT TGAGGGTTTT CCCCAGTCTC CTCTCCAGAT 960
 63 TCCTGGGAGC CCCTCCTCT CCTCCACTTT ACTGAGTCTT TTCCAGAGTT CCCCTGAGAG 1020
 64 AACTCACAGT ACTTTGAGG GTTTCCCTCA GTCTCCCTC CAGATTCTA TGACCTCCTC 1080
 65 CTTCTCCTCT ACTTTATTGA GTATTTCCA GAGTTCTCCT GAGAGTGCTC AAAGTACTTT 1140
 66 TGAGGGTTTT CCCCAGTCTC CTCTCCAGAT TCCTGGGAGC CCCTCCTCT CCTCCACTTT 1200
 67 ACTGAGTCTT TTCCAGAGTT CCCCTGAGAG AACTCACAGT ACTTTGAGG GTTTCCCTCA 1260
 68 GTCTCTCTC CAGATTCTA TGACCTCCTC CTTCTCCTCT ACTTTATTGA GTATTTACA 1320
 69 GAGTTCTCCT GAGAGTGCTC AAAGTCTTT TGAGGGTTTT CCCCAGTCTC CTCTCCAGAT 1380
 70 TCCTGTGAGC TCCTCTTCT CCTACACTTT ATTGAGTCTT TTCCAGAGTT CCCCTGAGAG 1440
 71 AACTCAGAGT ACTTTGAGG GTTTCCCTCA GTCTCCCTC CAGATTCTG TGAGCTCCTC 1500
 72 CTCCTCCTCC TCCACTTAT TGAGTCTTT CCAGAGTCTC CCTGAGGTGA CTCAAAGTAC 1560
 73 TTTGAGGGT TTCCCCAGT CTCTCTCCA GATTCTCAG AGTCTCTCTG AAGGGGAGAA 1620
 74 TACCCATTCT CCTCTCCAGA TTGTTCCAAG TCTTCCTGAG TGGGAGGACT CCCTGCTCTC 1680
 75 TCACTACTTT CCTCAGAGCC CTCTCAGGG GGAGGACTCC CTATCTCCTC ACTACTTCC 1740
 76 TCAGAGCCCT CCTCAGGGGG AGGACTCCCT GTCTCCCTCAC TACTTCCCTC AGAGCCTCA 1800
 77 GGGGGAGGAC TCCCTGTCTC CTCACTACTT TCCTCAGAGC CCTCTCAGGG GGGAGGACTC 1860
 78 CATGTCTCCT CTCTACTTT CTCAGAGTC TCTTCAGGGG GAGGAATTCC AGTCTCTCT 1920
 79 CCAGAGCCCT GTGAGCATCT GCTCCTCCTC CACTCCATCC AGTCTTCCCTC AGAGTCCCTCA 1980
 80 TGAGAGTTCT CAGAGTCCTC CTGAGGGGCC TGTCCAGTCT CCTCTCCATA GTCCCTCAGAG 2040
 81 CCCTCCTGAG GGGATGCCT CCCAATCTCC TCTCCAGAGT CCTGAGAGTG CTCCCTGAGGG 2100
 82 GGAGGATTCC CTGTCTCCTC TCCAAATTCC TCAGAGTCCT CTTGAGGGAG AGGACTCCCT 2160
 83 GTCTCTCTC CATTTCCTC AGAGTCCTC TGAGTGGGAG GACTCCCTCT CTCCCTCTCCA 2220
 84 CTTCCCTCAG TTTCCCTCCTC AGGGGGAGGA CTTCCAGTCT TCTCTCCAGA GTCCCTGTGAG 2280
 85 TATCTGCTCC TCCTCCACTT CTTGAGTCT TCCCCAGAGT TTCCCTGAGA GTCCCTCAGAG 2340
 86 TCCTCCTGAG GGGCCTGCTC AGTCTCCTCT CCAGAGACCT GTCAAGTCCTC TCTTCTCCTA 2400
 87 CACTTAGCG AGTCTTCTCC AAAGTTCCCA TGAGAGTCCT CAGAGTCCTC CTGAGGGGCC 2460
 88 TGCCCAAGTCT CCTCTCCAGA GTCCCTGTGAG CTCCCTCCCC TCCTCCACTT CATCGAGTCT 2520
 89 TTCCCAAGAGT TCTCCTGTGA GCTCCTTCCC CTCCCTCCACT TCATCGAGTC TTTCCAAGAG 2580
 90 TTCCCTGAG AGTCTCCTCC AGAGTCCTGT GATCTCCCTC TCCTCCTCCA CTTCATTGAG 2640
 91 CCCATTCAAGT GAAGAGTCCA GCAGCCAGT AGATGAATAT ACAAGTCCCT 2700

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92 GCTAGAGAGT GATTCCTTGA CAGACAGCGA GTCCTTGATA GAGAGCGAGC CCTTGGTCAC 2760
 93 TTATACACTG GATGAAAAGG TGGACGAGTT GGCGCGGTTT CTCTCCTCA AATATCAAGT 2820
 94 GAAGCAGCCT ATCACAAAGG CAGAGATGCT GACGAATGTC ATCAGCAGGT ACACGGGCTA 2880
 95 CTTTCCTGTG ATCTTCAGGA AAGCCCGTGA GTTCATAGAG ATACTTTTG GCATTTCCCT 2940
 96 GAGAGAAAGTG GACCCCTGATG ACTCCTATGT CTTTGTAAAC ACATTAGACC TCACCTCTGA 3000
 97 GGGGTGTCTG AGTGATGAGC AGGGCATGTC CCAGAACCGC CTCCCTGATTC TTATTCTGAG 3060
 98 TATCATCTTC ATAAAGGGCA CCTATGCCTC TGAGGAGGTC ATCTGGGATG TGCTGAGTGG 3120
 99 ATAAGGGGTG CGTGTGGGA GGGAGCACTT TGCCTTGGG GAGCCCAGGG AGCTCCTCAC 3180
 100 TAAAGTTTGG GTGCAGGAAC ATTACCTAGA GTACCGGGAG GTGCCCAACT CTTCTCCTCC 3240
 101 TCGTTACGAA TTCCTGTGGG GTCCAAGAGC TCATTCAGAA GTCATTAAGA GGAAAGTAGT 3300
 102 AGAGTTTTG GCCATGCTAA AGAATACCGT CCCTATTACC TTCCATCCT CTTACAAGGA 3360
 103 TGCTTTGAAA GATGTGGAAG AGAGAGCCCA GGCCATAATT GACACCACAG ATGATTCGAC 3420
 104 TGCCACAGAA AGTGCAAGCT CCAGTGTCTG GTCCCCCAGC TTCTCTTCTG AGTGAAGTCT 3480
 105 AGGGCAGATT CTTCCCTCTG AGTTGAAGG GGGCAGTCGA GTTTCTACGT GGTGGAGGGC 3540
 106 CTGGTTGAGG CTGGAGAGAA CACAGTGCTA TTGCAATTTC TGTTCCATAT GGGTAGTTAT 3600
 107 GGGGTTTACCT TGTTTACTT TTGGGTATT TTCAAATGCT TTTCCTATTAA ATAACAGGTT 3660
 108 TAAATAGCTT CAGAACCTTA GTTATGCAC ATGAGTCGCA CATGTATTGC TGTTTTCTG 3720
 109 GTTTAAGAGT AACAGTTGA TATTTGTAA AAACAAAAAC ACACCCAAAC ACACCACATT 3780
 110 GGGAAAACCT TCTGCCAT TTGTGATGT GTCACAGGTT AATGTGGTGT TACTGTAGGA 3840
 111 ATTTCTTGA AACTGTGAAG GAACTCTGCA GTTAAATAGT GGAATAAAGT AAAGGATTGT 3900
 112 TAATGTTGC ATTTCCCTCAG GTCCCTTGTCT CTGTTGTTCT TGAAAACATAA AGATACATAC 3960
 113 CTGGTTGCT TGGCTTACGT AAGAAAGTAG AAGAAAGTAA ACTGTAATAA ATAAAAAAA 4020
 114 AAAAAAAAAA A 4031

116 (2) INFORMATION FOR SEQ ID NO: 2:

117 (i) SEQUENCE CHARACTERISTICS:
 118 (A) LENGTH: 12 base pairs
 119 (B) TYPE: nucleic acid
 120 (C) STRANDEDNESS: single-stranded
 121 (D) TOPOLOGY: linear

122 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:

123 GATCTGCGGT GA

12

125 (2) INFORMATION FOR SEQ ID NO: 3:

126 (i) SEQUENCE CHARACTERISTICS:
 127 (A) LENGTH: 12 base pairs
 128 (B) TYPE: nucleic acid
 129 (C) STRANDEDNESS: SINGLE-stranded
 130 (D) TOPOLOGY: linear

131 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:

132 GATCTGTTCA TG

12

134 (2) INFORMATION FOR SEQ ID NO: 4:

135 (i) SEQUENCE CHARACTERISTICS:
 136 (A) LENGTH: 12 base pairs
 137 (B) TYPE: nucleic acid
 138 (C) STRANDEDNESS: single-stranded
 139 (D) TOPOLOGY: linear

140 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:

141 GATCTCCCT CG

12

143 (2) INFORMATION FOR SEQ ID NO: 5:

144 (i) SEQUENCE CHARACTERISTICS:

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PATENT APPLICATION: US/10/085,108

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Input Set : N:\Crf3\RULE60\10085108.raw
Output Set: N:\CRF3\03132002\J085108.raw

145 (A) LENGTH: 46 base pairs
 146 (B) TYPE: nucleic acid
 147 (C) STRANDEDNESS: single-stranded
 148 (D) TOPOLOGY: linear
 149 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
 150 NAACTGGAAG AATTCCGGC CGCAGGAATT TTTTTTTTTT TTTTTT
 152 (2) INFORMATION FOR SEQ ID NO: 6: 46
 153 (i) SEQUENCE CHARACTERISTICS:
 154 (A) LENGTH: 12 base pairs
 155 (B) TYPE: nucleic acid
 156 (C) STRANDEDNESS: single-stranded
 157 (D) TOPOLOGY: linear
 158 (ix) FEATURE:
 159 (D) OTHER INFORMATION: BstX1 adapter upper strand
 160 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
 161 CTTCCAGCA CA 12
 163 (2) INFORMATION FOR SEQ ID NO: 7: 12
 164 (i) SEQUENCE CHARACTERISTICS:
 165 (A) LENGTH: 1142
 166 (B) TYPE: amino acids
 167 (C) STRANDEDNESS: single-stranded
 168 (D) TOPOLOGY: linear
 169 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
 170 Met Gly Asp Lys Asp Met Pro Thr Ala Gly Met Pro Ser Leu Leu Gln
 171 5 10 15
 172 Ser Ser Ser Glu Ser Pro Gln Ser Cys Pro Glu Gly Glu Asp Ser Gln
 173 20 25 30
 174 Ser Pro Leu Gln Ile Pro Gln Ser Ser Pro Glu Ser Asp Asp Thr Leu
 175 35 40 45
 176 Tyr Pro Leu Gln Ser Pro Gln Ser Arg Ser Glu Gly Glu Asp Ser Ser
 177 50 55 60
 178 Asp Pro Leu Gln Arg Pro Pro Glu Gly Lys Asp Ser Gln Ser Pro Leu
 179 65 70 75 80
 180 Gln Ile Pro Gln Ser Ser Pro Glu Gly Asp Asp Thr Gln Ser Pro Leu
 181 85 90 95
 182 Gln Asn Ser Gln Ser Ser Pro Glu Gly Lys Asp Ser Leu Ser Pro Leu
 183 100 105 110
 184 Glu Ile Ser Gln Ser Pro Pro Glu Gly Glu Asp Val Gln Ser Pro Leu
 185 115 120 125
 186 Gln Asn Pro Ala Ser Ser Phe Phe Ser Ser Ala Leu Leu Ser Ile Phe
 187 130 135 140
 188 Gln Ser Ser Pro Glu Ser Ile Gln Ser Pro Phe Glu Gly Phe Pro Gln
 189 145 150 155 160
 190 Ser Val Leu Gln Ile Pro Val Ser Ala Ala Ser Ser Ser Thr Leu Val
 191 165 170 175
 192 Ser Ile Phe Gln Ser Ser Pro Glu Ser Thr Gln Ser Pro Phe Glu Gly
 193 180 185 190
 194 Phe Pro Gln Ser Pro Leu Gln Ile Pro Val Ser Arg Ser Phe Ser Ser
 195 195 200 205

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Input Set : N:\Crf3\RULE60\10085108.raw
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196 Thr Leu Leu Ser Ile Phe Gln Ser Ser Pro Glu Arg Ser Gln Arg Thr
197      210          215          220
198 Ser Glu Gly Phe Ala Gln Ser Pro Leu Gln Ile Pro Val Ser Ser Ser
199      225          230          235          240
200 Ser Ser Ser Thr Leu Leu Ser Leu Phe Gln Ser Ser Pro Glu Arg Thr
201      245          250          255
202 Gln Ser Thr Phe Glu Gly Phe Pro Gln Ser Pro Leu Gln Ile Pro Val
203      260          265          270
204 Ser Arg Ser Phe Ser Ser Thr Leu Leu Ser Ile Phe Gln Ser Ser Pro
205      275          280          285
206 Glu Arg Thr Gln Ser Thr Phe Glu Gly Phe Ala Gln Ser Pro Leu Gln
207      290          295          300
208 Ile Pro Val Ser Ser Ser Ser Ser Thr Leu Leu Ser Leu Phe Gln
209      305          310          315          320
210 Ser Ser Pro Glu Arg Thr Gln Ser Thr Phe Glu Gly Phe Pro Gln Ser
211      325          330          335
212 Leu Leu Gln Ile Pro Met Thr Ser Ser Phe Ser Ser Thr Leu Leu Ser
213      340          345          350
214 Ile Phe Gln Ser Ser Pro Glu Ser Ala Gln Ser Thr Phe Glu Gly Phe
215      355          360          365
216 Pro Gln Ser Pro Leu Gln Ile Pro Gly Ser Pro Ser Phe Ser Ser Thr
217      370          375          380
218 Leu Leu Ser Leu Phe Gln Ser Ser Pro Glu Arg Thr His Ser Thr Phe
219      385          390          395          400
220 Glu Gly Phe Pro Gln Ser Pro Leu Gln Ile Pro Met Thr Ser Ser Phe
221      405          410          415
222 Ser Ser Thr Leu Leu Ser Ile Leu Gln Ser Ser Pro Glu Ser Ala Gln
223      420          425          430
224 Ser Ala Phe Glu Gly Phe Pro Gln Ser Pro Leu Gln Ile Pro Val Ser
225      435          440          445
226 Ser Ser Phe Ser Tyr Thr Leu Leu Ser Leu Phe Gln Ser Ser Pro Glu
227      450          455          460
228 Arg Thr Gln Ser Thr Phe Glu Gly Phe Pro Gln Ser Pro Leu Gln Ile
229      465          470          475          480
230 Pro Val Ser Ser Ser Ser Ser Ser Thr Leu Leu Ser Leu Phe Gln
231      485          490          495
232 Ser Ser Pro Glu Cys Thr Gln Ser Thr Phe Glu Gly Phe Pro Gln Ser
233      500          505          510
234 Pro Leu Gln Ile Pro Gln Ser Pro Pro Glu Gly Glu Asn Thr His Ser
235      515          520          525
236 Pro Leu Gln Ile Val Pro Ser Leu Pro Glu Trp Glu Asp Ser Leu Ser
237      530          535          540
238 Pro His Tyr Phe Pro Gln Ser Pro Pro Gln Gly Glu Asp Ser Leu Ser
239      545          550          555          560
240 Pro His Tyr Phe Pro Gln Ser Pro Pro Gln Gly Glu Asp Ser Leu Ser
241      565          570          575
242 Pro His Tyr Phe Pro Gln Ser Pro Gln Gly Glu Asp Ser Leu Ser Pro
243      580          585          590
244 His Tyr Phe Pro Gln Ser Pro Pro Gln Gly Glu Asp Ser Met Ser Pro

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RAW SEQUENCE LISTING ERROR SUMMARY DATE: 03/13/2002
PATENT APPLICATION: US/10/085,108 TIME: 10:18:03

Input Set : N:\Crf3\RULE60\10085108.raw
Output Set: N:\CRF3\03132002\J085108.raw

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 5

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/085,108

DATE: 03/13/2002

TIME: 10:18:03

Input Set : N:\Crf3\RULE60\10085108.raw

Output Set: N:\CRF3\03132002\J085108.raw

L:21 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]

L:22 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]